Homework

1. A rectangle has a length that is 3 more than an integer and a width that is 5 less than twice the same integer. If the area of this rectangle is 21 m2, find the dimensions of the rectangle.
2. Find 4 consecutive even integers such that twice the product of the first and the last is 2 more than 5 times the third.
3. Find 4 consecutive positive odd integers such that the product of the third and the fourth is 6 less than three times the product of the first and the second.
4. New Clarendon Park is undergoing renovations to its gardens. One garden that was originally a square is being adjusted so that one side is doubled in length, while the other side is decreased by three meters. The new rectangular garden will have an area that is 25% more than the original square garden. Write an equation that could be used to determine the length of a side of the original square garden. Explain how your equation models the situation. Determine the area, in square meters, of the new rectangular garden.